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32,112/71

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 Complete Specification  
 entitled (54) METHOD AND MEANS OF GUTTER SECUREMENT

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Related Art (56)	410068	(25583/67)	81.4
	227207	(41089/58)	81.4
	227948	(39546/58)	81.4

The following statement is a full description of this invention, including the best method of performing it known to us:

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L253-50-1D-1 P.C.

C. J. Thompson, Government Printer, Canberra

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This invention relates to a gutter arrangement and means for supporting a gutter.

One common method of supporting a gutter along a structure for instance, a wooden fascia, includes locating a strip of quarter-round wood so that a lowermost edge of the gutter is supported on this.

This arrangement has several disadvantages, a first being that the quarter-round is always visible and this is considered disadvantage in the appearance of some buildings and secondly the wooden material and the gutter material is subject to substantial deterioration in this position in that water will collect in the area provided by the quarter-round and will be held by capillary action between it and the supported gutter. This effect is compounded by the lack on many occasions of adequate painting protection of the wood on hidden faces.

Other methods of supporting gutters have been proposed but in each case they suffer either by reason that the means supporting the gutter are discrete and distinct members and it is difficult to arrange that these are of pleasing appearance and regularly spaced for each and every application.

An object of this invention is to propose an arrangement and means relating to gutters whereby this problem can be overcome.

Accordingly there is provided a gutter for attachment to a structure the gutter including an outer wall, a floor and an inner wall so as to provide an upwardly open



## 32112 m

channel for water characterised in that the rear wall includes, above a lowermost edge, a ledge by which it can be supported, in hidden manner, by an outwardly extending protuberance from the supporting structure.

The feature of this arrangement is that the support means for the back wall of the gutter is able to be hidden so that discrete supporting brackets for instance will not be seen and this alleviates the problem previously stated.

In a preferred form of the invention the gutter being made of sheet metal has an impression formed in its back which includes an outwardly extending portion constituting the ledge, and below this an inwardly extending portion, a downwardly extending portion and, before a lower edge an inwardly extending portion.

This arrangement enables a bracket portion which constitutes an outwardly extending protuberance, to be supported on a planar face such as a fascia member while the lower edge of the gutter is against the face of the member such as the fascia so that the bracket is totally hidden from view while still providing support for the gutter.

In another form of the invention there is provided an assemblage including a gutter as previously characterised and a plurality of brackets each spacedly secured along a supporting structure, the ledge of the gutter resting in each case, on a protruding portion of each bracket.

Other forms of the invention will be seen by reference to claims attached to this specification.



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For a clearer understanding of the invention and for a description of the preferred method of performance of the invention reference will now be made to a preferred embodiment with the assistance of drawings wherein

Fig. 1 is a cross-sectional view of a gutter attached to a fascia member and

Fig. 2 is a perspective view of a fascia with a number of brackets spacedly arranged along the fascia member.

Referring to Fig. 1 the gutter 1 is made from sheet metal and includes in conventional form, an outer wall 2 with an upper curled lip 3 and a floor 4.

A back wall 6 is unusually formed according to this invention but in general form the three walls that is the outer wall 2, the floor 4 and the back wall 6 provide an upwardly open channel by which the gutter in conventional manner can carry water.

It is common to have two means by which the gutter is secured to a fascia 7 there being the traditional overhead strap which for sake of clarity is not shown in the drawing and there is the support for the rear portion of the gutter which is the feature of this present invention. In particular the back wall 6 includes an outwardly impressed portion 8 the impression including an uppermost portion 9 which extends out horizontally thereby constituting a ledge and at the end of this outermost portion 9 there is an inwardly returning portion 11 separated by a distance from the portion 9 by the thickness of the outwardly portion 12 of supporting bracket 13.



### 32112 m

From the end of this portion 11 there is a downwardly extending portion 14 which is almost but not quite vertical and slightly inclined so that it is closer at its lower end to the plane of the back wall 6 of the gutter 1. At the lower end of the portion 14 therefore the wall returns to comprise a lowermost portion 16 which is generally planar with an uppermost planar portion of the back wall 17 whereby as is shown in the drawings when the gutter is viewed from a position below the gutter that is in the position that such gutters would normally be viewed from, the means of support for the gutter in relation to the back wall thereof are completely hidden from view.

It is appreciated that almost all usage of gutters of this type is in a position where they will be viewed from below and any reference to any terminology relating to a characteristic of this supporting method where the term "hidden" is used it is understood that this is in relation to viewing from below the level of the gutter.

It will be seen from the description of the gutter therefore that there is provided a ledge shown as the portion 9 which is substantially above a lowermost edge of the gutter 18 whereby the gutter can be supported in hidden manner by an outwardly extending protruding portion which of course in this case is the portion 12 of the bracket 13.

The bracket 13 is secured to the fascia 7 by means of screws 19 and 21 and of course and referring to Fig. 2



## 32.1 12<sup>m</sup>

such brackets 13 are spacedly arranged along the fascia and each is secured in relative position to the fascia so as to determine suitable fall for the gutter 1.

Having now described in general terms the preferred embodiment it will be appreciated that there are several features of this embodiment which assist in the practical working of this arrangement.

A first of these is that the portion 9 of the back wall 6 should not be in any way upturned and preferably should be slightly downwardly inclined so that any water will drain away from this and run onto the floor 4 of the gutter.

It is also preferable that there be no obvious entrapment form for water within the arrangement and the form shown in the embodiment has been selected with this feature and problem in mind.

It will be noted however that any water that may drip or run from the outer wall 2 along the floor 4 has no obvious reservoir support against this lower edge by reason of any supporting surface and hence the problem of deterioration is substantially reduced.

It is to be noted that the method of fully supporting a gutter includes both an overhead strap and means supporting in a vertical direction the rear wall. The feature of this present invention relates to the support of the back wall and wherever the term "support" is used throughout this specification it refers to this area of support and is not intended to infer that this is the total means for supporting the gutter.



1. A gutter for attachment to a structure the gutter including an outer wall, a floor and an inner wall so as to provide an upwardly open channel for water characterised in that the rear wall includes, above a lowermost edge, a ledge by which it can be supported by an outwardly extending protuberance from a structure.

3. A gutter as in claim 2 wherein the impression includes an outwardly extending portion constituting the ledge, and below this an inwardly extending portion, a downwardly extending portion and, before the lowermost edge of the gutter, an inwardly extending portion.

5. An assemblage including a gutter as in any one of the preceding claims, and outwardly extending protuberances spacedly arranged along a supporting structure, the ledge of the gutter resting, in each case, on each protruding portion.

7.



32,112 M.

7. A gutter substantially as described in the specification with reference to and as illustrated by the accompanying drawings.

8. An assemblage substantially as described in the specification with reference to and as illustrated by the accompanying drawings.

Dated this 5th day of August, 1971.

R.H. LIETZKE & SON PTY. LTD.,  
By their Patent Attorneys,  
COLLISON & CO.









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